


Notice of Allowability	Application No.	Applicant(s)	
	10/763,709	HARTMAN ET AL.	
	Examiner	Art Unit	
Joseph Waks	2834		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed Oct. 20, 2004.
2. ☒ The allowed claim(s) is/are 1-48.
3. ☒ The drawings filed on 22 January 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>120804</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Steven G. Roeder on December 7, 2004.

The application has been amended as follows:

In the Specification:

Please amend the paragraph that begins on Page 19, line 7 as follows:

Varying PWM duty cycles can be produced by a microprocessor arrangement as illustrated in Figure 3C. The RPM of the power source and crank handle as well as its position can be read for example by sampling the voltage at a single generator phase as shown. And appropriate output voltage levels can be sent to oscillators to generate PWM signals and enable/reset converter chips as shown. Additionally, reading user input and driving displays is also readily implemented as shown. It should be noted that the microprocessor arrangement illustrated in Figure 3C functions as a first regulator that changes the PWM duty cycle and regulates and controls the output energy to the external battery or device that is being charged. The microprocessor itself requires a different power level to operate, as does other components such as the LCD display U13. A second regulator U11 (illustrated in Fig 3DB) diverts a portion of the main electrical energy and regulates this internally required energy to the microprocessor.

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In the Claims:

In the claims please amend claim 1 as provided below:

- 1. (Second Amended) A portable power source that is powered by a user to direct electrical energy to an object, the power source comprising:
a housing;
a stator component coupled to the housing;
a rotor component that is moved relative to the stator component by the user to generate electrical energy; and
a control system including a plurality of electrical components that receive the electrical energy and dynamically electronically adjusts the level of an output electrical energy to the object between multiple, discrete electrical energy levels without changing the electrical components.**

- 2. The following is an examiner's statement of reasons for allowance:**

Re claims 1-18, the feature of the control system including a plurality of electrical components that receive the electrical energy and electronically adjusts the level of an output electrical energy to the object between multiple, discrete electrical energy levels without changing the electrical components, in combination with the other limitations present, are neither disclosed nor taught by the prior art of record.

Re claims 19-29, the feature of the control system including a first regulator that controls the level of an output electrical energy to the object, and a second regulator that diverts at least a portion of the electrical energy and regulates the electrical energy to the processor, in combination with the other limitations present, are neither disclosed nor taught by the prior art of record.

Claims 30-40 are allowed. The reasons for allowance are indicated in previous Office action.

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Re claims 41-43, the feature of the control system that receives the electrical energy and electronically adjusts the level of an output electrical energy to the object between multiple, discrete electrical energy levels, in combination with the other limitations present, are neither disclosed nor taught by the prior art of record.

Re claims 44-48, the feature of the control system that receives the electrical energy and directs an output electrical energy to the object, the control system including a user input that allows the user to specify a required charging condition on the object, in combination with the other limitations present, are neither disclosed nor taught by the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Waks whose telephone number is (571) 272-2037. The examiner can normally be reached on Monday through Thursday 8 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren E Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Joseph Waks
Primary Examiner
Art Unit 2834

12/8/04